

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>MXI-160PC</b>	<b>FOR FURTHER ACTION</b> <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/US 00/ 20272</b>	International filing date (day/month/year) <b>25/07/2000</b>	(Earliest) Priority Date (day/month/year) <b>29/07/1999</b>
Applicant  <b>MEDAREX, INC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

**2a** \_\_\_\_\_

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 00/20272**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 26 to 32 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International Application No

/US 00/20272

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/22 C07K16/28 A01K67/027 A61K39/395 C12N5/20  
C12N15/13 G01N33/577 C07K16/46 A61P35/00 C12N15/85

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X  Y	WO 97 00271 A (UNIV CALIFORNIA) 3 January 1997 (1997-01-03)  page 1, line 16-30 page 2, line 17 -page 3, line 2 page 3, line 10 -page 4, line 2 page 4, line 19-25 page 5, line 8-14 page 49, line 1-26 page 50, line 19-31 --- -/--	1-5, 8-11, 17, 18, 21, 24, 26-34 6, 7, 12-14, 25, 35

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

10 January 2001

Date of mailing of the international search report

24. 01. 01

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## INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 94 04679 A (GENENTECH INC) 3 March 1994 (1994-03-03)</p> <p>abstract page 2, line 22 page 4, line 15-26 page 10, line 3-10 page 13, line 21-30 page 17, line 34-38 page 48, line 9-27 page 50, line 30 -page 51, line 26 page 52, line 9 -page 54, line 11 page 60, line 12-15 page 61, line 10-19 page 63; table 3 page 64; table 4 page 70, line 17 -page 73, line 3</p>	<p>1-5, 8-11, 24, 26-28, 30-34</p>
X	<p>WO 98 02463 A (KELER TIBOR ;MEDAREX INC (US); DEO YASHWANT M (US); GRAZIANO ROBER) 22 January 1998 (1998-01-22)</p>	<p>15-23, 28-32</p>
Y	<p>abstract</p> <p>page 1, line 5-16 page 2, line 29-36 page 3, line 1-10 page 5, line 10-14 page 18, line 20-30</p>	<p>6, 7, 12-14, 25, 35</p>
X	<p>CURNOW R T: "CLINICAL EXPERIENCE WITH CD64-DIRECTED IMMUNOTHERAPY. AN OVERVIEW" CANCER IMMUNOLOGY AND IMMUNOTHERAPY, BERLIN, DE, vol. 45, no. 3/04, November 1997 (1997-11), pages 210-215, XP000918956 ISSN: 0340-7004 abstract</p>	<p>17, 18, 20, 21, 28, 29, 31, 32</p>
X	<p>BASELGA J ET AL: "PHASE II STUDY OF WEEKLY INTRAVENOUS RECOMBINANT HUMANIZED ANTI-P185HER2 MONOCLONAL ANTIBODY IN PATIENTS WITH HER2/NEU-OVEREXPRESSING METASTATIC BREAST CANCER" JOURNAL OF CLINICAL ONCOLOGY, PHILADELPHIA, PA, US, vol. 14, no. 3, March 1996 (1996-03), pages 737-744, XP000918166 abstract page 737, column 1, paragraph 1 -column 2, paragraph 1 page 738, column 1, paragraph 2 page 740, column 1, line 4-6</p>	<p>1-5, 8-11, 24, 26-28, 31-34</p>

## INTERNATIONAL SEARCH REPORT

International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>A JAKOBOVITS: "The long-awaited magic bullets: therapeutic human monoclonal antibodies from transgenic mice" EXPERT OPINION ON INVESTIGATIONAL DRUGS,GB,ASHLEY PUBLICATIONS LTD., LONDON, vol. 7, no. 4, 1 April 1998 (1998-04-01), pages 607-614, XP002084509 ISSN: 1354-3784 abstract  page 607, paragraph 2  page 609, column 1, paragraphs 2-4  page 612, column 1, paragraph 2 -page 613, column 2, paragraph 1</p>	<p>6,7, 12-14</p>
P,X	<p>WO 99 55367 A (MARKS JAMES D ;POUL MARIE ALIX (US); UNIV CALIFORNIA (US))  4 November 1999 (1999-11-04)  abstract  page 1, line 15-18  page 2, line 16-22  page 5, line 5-11  page 5, line 31,32  page 7, line 5-7  page 17, line 11-18  page 18, line 3-30  page 19, line 18 -page 20, line 23  page 22, line 1 -page 23, line 13  page 66, line 11 -page 67, line 16</p>	<p>1-5,10, 24,26, 28,30-34</p>

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9700271	A	03-01-1997	AU 6113396 A CA 2245835 A EP 0873363 A US 5977322 A	15-01-1997 03-01-1997 28-10-1998 02-11-1999
WO 9404679	A	03-03-1994	US 5821337 A AU 675916 B AU 2250992 A EP 0590058 A JP 6508267 T US 6054297 A CA 2103059 A EP 0940468 A WO 9222653 A AU 5083193 A	13-10-1998 27-02-1997 12-01-1993 06-04-1994 22-09-1994 25-04-2000 15-12-1992 08-09-1999 23-12-1992 15-03-1994
WO 9802463	A	22-01-1998	US 5922845 A AU 705643 B AU 3723397 A CA 2259371 A CN 1230198 A EP 0914346 A HU 9903951 A JP 2000505091 T PL 331091 A	13-07-1999 27-05-1999 09-02-1998 22-01-1998 29-09-1999 12-05-1999 28-03-2000 25-04-2000 21-06-1999
WO 9955367	A	04-11-1999	AU 3742999 A AU 3743299 A AU 3862299 A WO 9955720 A WO 9956129 A	16-11-1999 16-11-1999 16-11-1999 04-11-1999 04-11-1999